TEJUS

## Test Report on Cement

| | |
|---|---|
| Project | Developments works to be under taken in Ward No.03 of BBMP around Solid Waste Disposal Processing units Bellahalli, Bagalaru and Kattigenahalli Byatarayanapura Constituency. |
| Client | Bruhat Bangalore Mahanagar Palike |
| Consultant | TEJUS CONSULTANTS |
| Contractor | Sri.A G. Narayana Swamy. |
| Sample ID | Cement (ACC Cement) OPC 43 Grade |
| Date of Sample Tested | 02-06-2022 |
| Sample Supplied By | Agency |

| Sl.No. | Descriptions | Test Method as per IS | Test Result | Requirements as per IS: 12269-1987 |
|---|---|---|---|---|
| 1 | a) Initial Setting Time | IS-4031 (Part-5) | 104 Minutes | Not Less than 30 Minutes |
| | b) Final Setting Time | IS-4031 (Part-5) | 468 Minutes | Not More than 600 Minutes |
| 2 | Soundness | IS-4031 (Part-3) By the Le-Chatelier method | 6 mm | Not More than 10 mm |
| 3 | Standard Consistency | IS-4031 (Part-4) | 29.00% | 25 % to 35 |

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4.The material used in the site satisfied the standard of MORTH's 5th revision and hence can be used in the work.

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

Authorised Signatory

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TEST REPORT

| | |
|---|---|
| Clients | BRUHAT BENGALURU MAHANAGARA PALIKE |
| Project | Developments works to be under taken in Ward No.68 of BBMP around Solid Waste Disposal Processing units Bellahalli, Sugalure and Kattigenahalli, Byatarayanapura Constituency. |
| Consultants | TEJUS CONSULTANTS Basaveshwar Nagar Bangalore |
| Contractor | Sri.A G. Narayana Swamy. |

## SPECIFIC GRAVITY AND WATER ABSORPTION
### FINE AGGREGATE (IS-2386-PART-3)

| | | | |
|---|---|---|---|
| Type of Material | M sand | Proposed Use | PCC |
| Location/Source | Near Nagar cross road | Date of Sampling | 02-06-2022 |
| Period of Soaking | 24 hours | Date of Testing | 02-06-2022 |

| Sl. No. | Test Property | | TRIAL - 1 | TRIAL - 2 | TRIAL - 3 | |
|---|---|---|---|---|---|---|
| A | Weight of saturated surface dry sample gm. | | 652 | 638 | 647 | |
| B | Weight of oven - dry sample gm. | | 648 | 630 | 639 | |
| C | Weight of Pycnometer Filled with water gm | | 1275 | 1275 | 1275 | |
| D | Weight of Pycnometer + sample + water gm | | 1685 | 1676 | 1681 | |
| E | Bulk specific gravity | B / ( C + A - D ) | 2.657 | 2.658 | 2.651 | 2.656 |
| G | Absorption (%) | ( A - B ) *100 / B | 1.400 | 1.270 | 1.252 | 1.307 |

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## TEST REPORT

| | |
|---|---|
| Clients | Bruhat Bangalore Mahanagara Palike |
| Project | Developments works to be under taken in Ward No.05 of BBMP around Solid Waste Disposal Processing units Bellahalli, Bagaluru and Kattigenahalli Byatarayanapura Constituency. |
| Consultants | Tejus Consultants, Bangalore |
| Contractor | Sri.A G. Narayana Swamy. |

## SIEVE ANALYSIS

| | | | |
|---|---|---|---|
| Total Weight: | 3000 gms | | |
| Type of Material | M sand | Proposed Use | PCC |
| Sample Location | Noor Nagar cross road | Date of Sampling | 02-06-2022 |
| | | Date of Testing | 02-06-2022 |

| IS Sieve Size | Weight Retained | Cum. Weight Retained | Cum. % Retained | Cum. % Passing | Spec. Limit (%) Passing (Zone-II) |
|---|---|---|---|---|---|
| 10.00 mm | 0 | 0 | 0 | 100.00 | 100 |
| 4.75 mm | 222 | 222 | 7.40 | 92.60 | 90 - 100 |
| 2.36 mm | 318 | 540 | 18.00 | 82.00 | 75 - 100 |
| 1.18 mm | 420 | 960 | 32.00 | 68.00 | 55 - 90 |
| 0.600 mm | 488 | 1448 | 48.27 | 51.73 | 35 -59 |
| 0.300 mm | 748 | 2196 | 73.20 | 26.80 | 8-30 |
| 0.150 mm | 620 | 2816 | 93.87 | 6.13 | 0 - 10 |
| Pan | 184 | 3000 | | | - |
| | | | | | |

**Remarks :** ✓ Satisfactory / Not Satisfactory

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BBMP, Bangalore - 92

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## TEST REPORT

| | |
|---|---|
| **Clients** | Bruhath Bangalore Mahanagara Palike |
| **Project** | Developments works to be under taken in Ward No.05 of BBMP around Solid Waste Disposal Processing units Bellahalli, Bagaluru and Kattigenahalli Byatarayanapura Constituency. |
| **Consultants** | TEJUS CONSULTANTS Basaveshwar Nagar Bangalore |
| **Contractor** | Sri.A G. Narayana Swamy. |
| **Total Weight in gm:** | 3000 |

## SIEVE ANALYSIS

| | | | |
|---|---|---|---|
| **Type of Material** | 40 mm down size | **Proposed Use** | PCC |
| **Sample Location** | Dwaraka nagar main road | **Date of Sampling** | 02-06-2022. |
| | | **Date of Testing** | 02-06-2022 |

| IS Sieve Size | Weight Retained in gm | Cum. Weight Retained in gm | Cumulative Weight Retained in % | Cumulative Weight Passing in % | Specific Limits as per IS 383-1970 (RA-2007) % of Passing For Graded Aggregate of Nominal Size |
|---|---|---|---|---|---|
| 80.00mm | 0 | 0 | 0.00 | 100.00 | 100 |
| 63.00mm | 0 | 0 | 0.00 | 100.00 | - |
| 40.00mm | 76 | 76 | 2.53 | 97.47 | 95-100 |
| 20.00mm | 1377 | 1453 | 48.43 | 51.57 | 30-70 |
| 10.00mm | 966 | 2419 | 80.63 | 19.37 | 10-35 |
| 4.75mm | 476 | 2895 | 96.50 | 3.50 | 0-5 |
| Pan | 105 | 3000 | 100.00 | 0.00 | |

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Project Division
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BBMP, Bangalore - 92

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## Test Report on Compressive Strength of Concrete Cubes

| | |
|---|---|
| Project | Development works to be under taken in ward no.5 of BBMP around solidwaste disposal processing units bellalli bagalure and kattigenalli , byatarayanapura constituncy , |
| Client | Brohat Bangalore Mahanagar Palike |
| Consultant | TEJUS CONSULTANTS |
| Contractor | Sri.A G. Narayana Swamy. |
| Location: | Cement |
| Grade of concrete: | M30 |
| Size of cube: | 150x150x150 mm |
| Reference IS code: | IS:516-1959 |
| Sample Location | Noor nagar cross road |

| Sl.No. | Date of Casting | Date of testing | Age of Test | Weight of Cube | Area of Cube | Failure load | Compressive strength | Avg. Compressive strength |
|---|---|---|---|---|---|---|---|---|
| | | | | Kg | $mm^3$ | KN | $N/mm^2$ | $N/mm^2$ |
| 1 | 02-06-2022 | 09-06-2022 | 7 days | 8.740 | 22500 | 415 | 18.44 | 18.89 |
| 2 | 02-06-2022 | 09-06-2022 | 7 days | 8.682 | 22500 | 410 | 18.22 | |
| 3 | 02-06-2022 | 09-06-2022 | 7 days | 8.584 | 22500 | 450 | 20.00 | |

Remarks : Satisfactory / Not Satisfactory

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Consultant's Representative

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## DETERMINATION OF RATE OF SPREAD TACK COAT

| | |
|---|---|
| **Name of Work :** | Developments works to be under taken in Ward No.05 of BBMP around Solid Waste Disposal Processing units Bellahalli, Bagaluru and Kattigenahalli Byatarayanapura Constituency. |
| **Client :** | BRUHAT BANGALORE MAHANAGARA PALIKE |
| **Consultant :** | M/s Tejus Consultants |
| **Contractor :** | Sri.A G Narayana Swamy. |
| **Date of Testing :** | 03-06-2022 |
| **Type of Mix :** | Tack coat |
| **Sample I/D :** | 6 |
| **Location :** | Baba nagar main road |

| **Determination** | **Unit** | **Test No** | | |
|---|---|---|---|---|
| | | **1** | **2** | **3** |
| **Location :** | **Chainage** | **@120** | **@150** | **@210** |
| Size of Plate (mxm) | Mt | 0.30 x .30 | 0.30 x .30 | 0.30 x .30 |
| Area of Plate (a) | Sq.mtr | 0.09 | 0.09 | 0.09 |
| Initial Wt of empty Plate (b) | Kg | 0.780 | 0.803 | 0.811 |
| Final weight of plate after application of tack Coat (c) | Kg | 0.803 | 0.826 | 0.834 |
| Weight of tack Coat (d=c-b) | Kg | 0.023 | 0.023 | 0.023 |
| Rate of spread of tack coat | Kg/sq.m | 0.253 | 0.252 | 0.253 |
| Average | Kg/sq.m | 0.253 | | |
| Specified Limit | Kg/sq.m | **0.250 Kg/sq.m** | | |

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## BITUMEN CONTENT AND GRADATION DETERMINATION OF BITUMINOUS CONCRETE MIX

| | | |
|---|---|---|
| **Name of Work** | : | Developments works to be under taken in Ward No.05 of BBMP around Solid Waste Disposal Processing units Bellahalli, Bagaluru and Kattigenahalli Byatarayanapura Constituency. |
| **Client** | : | Bruhat Bengaluru Mahanagara Palike |
| **Consultant** | : | TEJUS CONSULTANTS Basaveshwar Nagar Bangalore |
| **Contractor** | : | Sri A G Narayana Swamy. |
| **Date of Testing** | : | 03-06-2022 |
| **Type of Mix** | : | BC |
| **Sample I/D** | : | BC3 |

### DETERMINATION OF BITUMEN CONTENT

| Description | Trail 1 | Trail 2 |
|---|---|---|
| 1. Weight of Mixture before extraction, g | 903 | 954 |
| 2. Weight of Mixture after extraction, g | 853 | 902 |
| 3. Weight of Bitumen | 50 | 52 |
| 4. Weight of filter paper before extraction, g | 2.00 | 2.15 |
| 5. Weight of filter paper after extraction, g | 4.10 | 4.00 |
| 6. Weight of fines, g | 2.10 | 1.85 |
| 7. Weight of Bitumen & fines | 52.10 | 53.85 |
| 8. Bitumen content in % | 5.77 | 5.64 |
| 9. Average Bitumen content in % | **5.71** | |
| 10. Minimum Bitumen content in % | **5.40** | |

### GRADATION FOR BC AFTER EXTRACTION
**(As per MORT&H 500-18,Grading-2)**

| | | | |
|---|---|---|---|
| Sample Location: | Baba nagar main road | Date of Sampling: | **03-06-2022** |
| | | Date of testing: | **03-06-2022** |
| Type of material & Purpose: | **BC** | Oven Dry Wt.(gms): | 853.0 |

| IS Sieve size in mm | Weight retained | Cummulative weight retained (gm) | Cummulative % of retained | Cummulative % of passing | Specification limits |
|---|---|---|---|---|---|
| 19.00 | 0 | 0 | 0.00 | 100.00 | 100.00 |
| 13.20 | 86 | 86.0 | 10.08 | 89.92 | 79 - 100 |
| 9.50 | 127 | 213.0 | 24.97 | 75.03 | 71 - 95 |
| 4.75 | 102 | 315.0 | 36.93 | 63.07 | 53 - 71 |
| 2.360 | 112 | 427.0 | 50.06 | 49.94 | 42 - 58 |
| 1.180 | 105 | 532.0 | 62.37 | 37.63 | 34 - 48 |
| 0.600 | 75 | 607.0 | 71.16 | 28.84 | 26 - 38 |
| 0.300 | 78 | 685.0 | 80.30 | 19.70 | 18 - 28 |
| 0.150 | 49 | 734.0 | 86.05 | 13.95 | 12 - 20 |
| 0.075 | 68 | 802.0 | 94.02 | 5.98 | 4 - 10 |
| Dust | 51.0 | 853.0 | | | |
| Total | 853.0 | | | | |

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Yelahanka Zone
BBMP/Yel/2019-20 - 92

Consultants Representative



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| | |
|---|---|
| **Project** | Developments works to be under taken in Ward No.05 of BBMP around Solid Waste Disposal Processing units Bellahalli, Bagaluru and Kattigenahalli Byatarayanapura Constituency. |
| **Client** | Bruhat Bengaluru Mahanagara Palike |
| **Consultant** | TEJUS CONSULTANTS Basaveshwar Nagar Bangalore |
| **Contractor** | Sri.A G Narayana Swamy. |

## AGGREGATE IMPACT VALUE (IS: 2386 Part - 4)

| | | | |
|---|---|---|---|
| **Proposed Use** | BC | **Date of Sampling** | 05-06-2022 |
| **Sample Location** | At plant | **Date of Testing** | 05-06-2022 |

| Sl. No. | Description | | Test No. 1 | Test No. 2 | Test No. 3 | Spec Limit (%) |
|---|---|---|---|---|---|---|
| 1 | Wt. of stone pieces (dry) passing IS Sieve 12.5mm but retained in IS sieve 10mm (gm) | (Wa) | 377.00 | 362.00 | 343.00 | |
| 2 | Wt. of the fraction retained in IS sieve 2.36mm after the impact test (gm) | (Wb) | 281.00 | 272.00 | 259.00 | |
| 3 | Wt. of the fraction passed in IS sieve 2.36mm after the impact test (gm) | (Wc) | 96.00 | 90.00 | 84.00 | |
| 4 | Aggregate Impact Value (%) | (Wc/Wa)*100 | 25.46 | 24.86 | 24.49 | |
| 5 | Average Aggregate impact value | (%) | 24.94 | | | Max - 30 % |

**Remarks :** ✓ Satisfactory / Not Satisfactory

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| | |
|---|---|
| **Project** | Developments works to be under taken in Ward No.05 of BBMP around Solid Waste Disposal Processing units Bellahalli, Bagaluru and Kattigenahalli Byatarayanapura Constituency. |
| **Client** | Bruhat Bengaluru Mahanagara Palike |
| **Consultant** | TEJUS CONSULTANTS Basaveshwar Nagar Bangalore |
| **Contractor** | Sri.A G Narayana Swamy. |

## FLAKINESS AND ELONGATION INDICES (IS 2386, PART 1)

| | | | | |
|---|---|---|---|---|
| **Type of Material** | BC | | **Proposed Use** | BC |
| **Sample Location** | At plant | | **Date of Sampling** | 05-06-2022 |
| | | | **Date of Testing** | 05-06-2022 |

| Size of aggregate | | Flakiness Index | | Elongation Index | |
|---|---|---|---|---|---|
| **Passing through IS sieve, mm** | **Retained on IS sieve, mm** | **Total wt. of aggregate retained on sieves (A) gms.** | **Wt. of aggregate passing from Flakiness gauge (B) gms** | **Wt. of aggregate retained on Flakiness gauge (C) gms** | **Wt. of aggregate retained on Elongation gauge after retained on Flakiness gauge(D)gms** |
| 63.0 | 50.0 | 0 | 0 | 0 | 0 |
| 50.0 | 40.0 | 0 | 0 | 0 | 0 |
| 40.0 | 31.5 | 0 | 0 | 0 | 0 |
| 31.5 | 25.0 | 0 | 0 | 0 | 0 |
| 25.0 | 20.0 | 0 | 0 | 0 | 0 |
| 20.0 | 16.0 | 957 | 83 | 960 | 74 |
| 16.0 | 12.5 | 1308 | 112 | 1241 | 120 |
| 12.5 | 10.0 | 523 | 78 | 436 | 58 |
| 10.0 | 6.3 | 498 | 68 | 425 | 60 |
| **Total** | | **3286** | **341** | **3062** | **312** |

**Note:** Minimum 200 Pcs should be taken on each fraction of test

| | |
|---|---|
| Flakiness Index(%): | 10.38 |
| Elongation Index(%): | 10.19 |
| Combined FI+EL (%) | 20.57 |

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|---|---|
| **Project** | Developments works to be under taken in Ward No.05 of BBMP around Solid Waste Disposal Processing units Bellahalli, Bagaluru and Kattigenahalli Byatarayanapura Constituency. |
| **Client** | Bruhat Bengaluru Mahanagara Palike |
| **Consultant** | TEJUS CONSULTANTS Basaveshwar Nagar Bangalore |
| **Contractor** | Sri.A G Narayana Swamy. |

**AGGREGATE IMPACT VALUE (IS: 2386 Part - 4)**

| | | | |
|---|---|---|---|
| **Proposed Use** | BC | **Date of Sampling** | **05-06-2022** |
| **Sample Location** | At plant | **Date of Testing** | **05-06-2022** |

| Sl. No. | Description | | Test No. 1 | Test No. 2 | Test No. 3 | Spec Limit (%) |
|---|---|---|---|---|---|---|
| 1 | Wt. of stone pieces (dry) passing IS Sieve 12.5mm but retained in IS sieve 10mm (gm) | (Wa) | 377.00 | 362.00 | 343.00 | |
| 2 | Wt. of the fraction retained in IS sieve 2.36mm after the impact test (gm) | (Wb) | 281.00 | 272.00 | 259.00 | |
| 3 | Wt. of the fraction passed in IS sieve 2.36mm after the impact test (gm) | (Wc) | 96.00 | 90.00 | 84.00 | |
| 4 | Aggregate Impact Value (%) | (Wc/Wa)*100 | 25.46 | 24.86 | 24.49 | |
| 5 | Average Aggregate impact value | (%) | 24.94 | | | Max - 30 % |

**Remarks :** ✓ Satisfactory / Not Satisfactory

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| | |
|---|---|
| **Project** | Developments works to be under taken in Ward No.05 of BBMP around Solid Waste Disposal Processing units Bellahalli, Bagaluru and Kattigenahalli Byatarayanapura Constituency. |
| **Client** | Bruhat Bengaluru Mahanagara Palike |
| **Consultant** | TEJUS CONSULTANTS Basaveshwar Nagar Bangalore |
| **Contractor** | Sri.A G Narayana Swamy. |

## AGGREGATE IMPACT VALUE (IS: 2386 Part - 4)

| | | | |
|---|---|---|---|
| **Proposed Use** | BC | **Date of Sampling** | 05-06-2022 |
| **Sample Location** | At plant | **Date of Testing** | 05-06-2022 |

| Sl. No. | Description | | Test No. 1 | Test No. 2 | Test No. 3 | Spec Limit (%) |
|---|---|---|---|---|---|---|
| 1 | Wt. of stone pieces (dry) passing IS Sieve 12.5mm but retained in IS sieve 10mm (gm) | (Wa) | 377.00 | 362.00 | 343.00 | |
| 2 | Wt. of the fraction retained in IS sieve 2.36mm after the impact test (gm) | (Wb) | 281.00 | 272.00 | 259.00 | |
| 3 | Wt. of the fraction passed in IS sieve 2.36mm after the impact test (gm) | (Wc) | 96.00 | 90.00 | 84.00 | |
| 4 | Aggregate Impact Value (%) | (Wc/Wa)*100 | 25.46 | 24.86 | 24.49 | |
| 5 | Average Aggregate impact value | (%) | 24.94 | | | Max - 30 % |

**Remarks :** Satisfactory / Not Satisfactory

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## Test Report on Compressive Strength of Concrete Cubes

| | |
|---|---|
| Project | Development works to be under taken in ward no.5 of BBMP around solidwaste [illegible] bellalli hugaluru and kattigenalli , hyanarayanapura constituency . |
| Client | Bruhat Bangalore Mahanagar Palike |
| Consultant | TEJUS CONSULTANTS |
| Contractor | Sri.A G. Narayana Swamy. |
| Location: | Cement |
| Grade of concrete: | M30 |
| Size of cube: | 150x150x150 mm |
| Reference IS code: | IS:516-1959 |
| Sample Location | Noor nagar cross road |

| Sl.No. | Date of Casting | Date of testing | Age of Test | Weight of Cube | Area of Cube | Failure load | Compressive strength | Avg. Compressive strength |
|---|---|---|---|---|---|---|---|---|
| | | | | Kg | $mm^2$ | KN | $N/mm^2$ | $N/mm^2$ |
| 1 | 08-06-2022 | 15-06-2022 | 7 days | 8.224 | 22500 | 416 | 18.49 | 18.90 |
| 2 | 08-06-2022 | 15-06-2022 | 7 days | 8.324 | 22500 | 410 | 18.22 | |
| 3 | 08-06-2022 | 15-06-2022 | 7 days | 8.420 | 22500 | 450 | 20.00 | |

Remarks : ✓ Satisfactory / Not Satisfactory

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TEJUS CONSULTANTS

Consultant's Representative

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92



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## TEST REPORT

| | | | |
|---|---|---|---|
| **Clients** | Bruhat Bangalore Mahanagara Palike | | |
| **Project** | Developments works to be under taken in Ward No.05 of BBMP around Solid Waste Disposal Processing units Bellahalli, Bagaluru and Kattigenahalli Byatarayanapura Constituency. | | |
| **Consultants** | TEJUS CONSULTANTS Basaveshwar Nagar Bangalore | | |
| **Contractor** | Sri.A G. Narayana Swamy. | | |
| **Total Weight:** | 10000 | gms | |

## SIEVE ANALYSIS

| | | | |
|---|---|---|---|
| **Type of Material** | 20 mm down size | **Proposed Use** | Concrete |
| **Sample Location** | At Plant | **Date of Sampling** | 08-06-2022 |
| | | **Date of Testing** | 08-06-2022 |

| IS Sieve Size | Weight Retained | Cum. Weight Retained | Cum. % Retained | Cum. % Passing | Spec. Limit (%) Passing |
|---|---|---|---|---|---|
| 40.00 mm | 0 | 0 | 0 | 100 | 100 |
| 20.00 mm | 260 | 260 | 2.60 | 97.40 | 95 - 100 |
| 10.00 mm | 4897 | 5157 | 51.57 | 48.43 | 25 - 55 |
| 4.75 mm | 4344 | 9501 | 95.01 | 4.99 | 0 - 10 |
| Pan | 499 | 10000 | | | |

**Remarks :** ✓ Satisfactory / Not Satisfactory

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# TEST REPORT

| | |
|---|---|
| Clients | Bruhat Bangalore Mahanagara Palike |
| Project | Developments works to be under taken in Ward No.05 of BBMP around Solid Waste Disposal Processing units Bellahalli, Bagaluru and Kattigenahalli Byatarayanapura Constituency. |
| Consultants | TEJUS CONSULTANTS Basaveshwar Nagar Bangalore |
| Contractor | Sri.A G. Narayana Swamy. |
| Total Weight: | 10000 gms |

## SIEVE ANALYSIS

| | | | |
|---|---|---|---|
| Type of Material | 12.5 mm down size | Proposed Use | Concrete |
| Sample Location | Plant | Date of Sampling | 08-06-2022 |
| | | Date of Testing | 08-06-2022 |

| IS Sieve Size (In mm) | Weight Retained | Cum. Weight Retained | Cum. % Retained | Cum. % Passing | Spec. Limit (%) Passing |
|---|---|---|---|---|---|
| 20.0 | 0 | 0 | 0 | 100 | 100 |
| 12.5 | 596 | 596 | 5.96 | 94.04 | 90-100 |
| 10.0 | 3364 | 3960 | 39.60 | 60.40 | 40-85 |
| 4.75 | 5492 | 9452 | 94.52 | 5.48 | 0-10 |
| Pan | 548 | 10000 | | | |
| | | | | | |

**Remarks :** ✓ Satisfactory / Not Satisfactory

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## TEST REPORT

| | |
|---|---|
| **Clients** | Bruhat Bangalore Mahanagara Palike |
| **Project** | Developments works to be under taken in Ward No.05 of BBMP around Solid Waste Disposal Processing units Bellahalli, Bagaluru and Kattigenahalli Byatarayanapura Constituency. |
| **Consultants** | TEJUS CONSULTANTS Basaveshwar Nagar Bangalore |
| **Contractor** | Sri.A G. Narayana Swamy. |

## SIEVE ANALYSIS

| | | | | | |
|---|---|---|---|---|---|
| **Total Weight:** | 3000 | gms | | | |
| **Type of Materia** | M sand | | **Proposed Use** | Concrete | |
| **Sample Location** | At Plant | | **Date of Sampling** | 08-06-2022 | |
| | | | **Date of Testing** | 08-06-2022 | |
| **IS Sieve Size** | **Weight Retained** | **Cum. Weight Retained** | **Cum. % Retained** | **Cum. % Passing** | **Spec. Limit (%) Passing (Zone-II)** |
| 10.00 mm | 0 | 0 | 0 | 100.00 | 100 |
| 4.75 mm | 226 | 226 | 7.53 | 92.47 | 90 - 100 |
| 2.36 mm | 280 | 506 | 16.87 | 83.13 | 75 - 100 |
| 1.18 mm | 408 | 914 | 30.47 | 69.53 | 55 - 90 |
| 0.600 mm | 570 | 1484 | 49.47 | 50.53 | 35 -59 |
| 0.300 mm | 748 | 2232 | 74.40 | 25.60 | 8-30 |
| 0.150 mm | 536 | 2768 | 92.27 | 7.73 | 0 - 10 |
| Pan | 232 | 3000 | | | - |
| | | | | | |

**Remarks :** ✓ Satisfactory / Not Satisfactory

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## TEST REPORT

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|---|---|
| Clients | Bruhat Bangalore Mahanagara Palike |
| Project | Developments works to be under taken in Ward No.05 of BBMP around Solid Waste Disposal Processing units Bellahalli, Bagaluru and Kattigenahalli Byatarayanapura Constituency. |
| Consultants | TEJUS CONSULTANTS Basaveshwar Nagar Bangalore |
| Contractor | Sri.A G. Narayana Swamy. |

## SIEVE ANALYSIS

| | | | | | |
|---|---|---|---|---|---|
| Total Weight: | 3000 | gms | | | |
| Type of Materia | M sand | | Proposed Use | Concrete | |
| Sample Location | At Plant | | Date of Sampling | 08-06-2022 | |
| | | | Date of Testing | 08-06-2022 | |

| IS Sieve Size | Weight Retained | Cum. Weight Retained | Cum. % Retained | Cum. % Passing | Spec. Limit (%) Passing (Zone-II) |
|---|---|---|---|---|---|
| 10.00 mm | 0 | 0 | 0 | 100.00 | 100 |
| 4.75 mm | 226 | 226 | 7.53 | 92.47 | 90 - 100 |
| 2.36 mm | 280 | 506 | 16.87 | 83.13 | 75 - 100 |
| 1.18 mm | 408 | 914 | 30.47 | 69.53 | 55 - 90 |
| 0.600 mm | 570 | 1484 | 49.47 | 50.53 | 35 -59 |
| 0.300 mm | 748 | 2232 | 74.40 | 25.60 | 8-30 |
| 0.150 mm | 536 | 2768 | 92.27 | 7.73 | 0 - 10 |
| Pan | 232 | 3000 | | | - |
| | | | | | |

**Remarks :** ✓ Satisfactory / Not Satisfactory

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# TEST REPORT

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| **Clients** | BRUHAT BENGALORE MAHANAGARA PALIKE |
| **Project** | Developments works to be under taken in Ward No.05 of BBMP around Solid Waste Disposal Processing units Bellahalli, Bagaluru and Kattigenahalli Byatarayanapura Constituency. |
| **Consultants** | TEJUS CONSULTANTS Basaveshwar Nagar Bangalore |
| **Contractor** | Sri.A G. Narayana Swamy. |

## SPECIFIC GRAVITY AND WATER ABSORPTION

### FINE AGGREGATE (IS-2386-PART-3)

| | | | |
|---|---|---|---|
| **Type of Material** | M sand | **Proposed Use** | Concrete |
| **Location/Source** | At Plant | **Date of Sampling** | 08-06-2022 |
| **Period of Soaking** | 24 hours | **Date of Testing** | 08-06-2022 |

| Sl. No. | Test Property | TRIAL - 1 | TRIAL - 2 | TRIAL - 3 | Average |
|---|---|---|---|---|---|
| A | Weight of sturated surface dry sample gm. | 638 | 656 | 674 | |
| B | Weight of oven - dry sample gm. | 628 | 648 | 666 | |
| C | Weight of Pycnometer Filled with water gm | 1275 | 1275 | 1275 | |
| D | Weight of Pycnometer + sample + water gm | 1676 | 1688 | 1698 | |
| E | Bulk specific gravity $\frac{B}{(C+A-D)}$ | 2.650 | 2.667 | 2.653 | **2.657** |
| G | Absorption (%) $\frac{(A-B)*100}{B}$ | 1.592 | 1.235 | 1.201 | **1.343** |

**Remarks :** ✓ Satisfactory / Not Satisfactory

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## Test Report on Cement

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| | |
|---|---|
| **Project** | Developments works to be under taken in Ward No.05 of BBMP around Solid Waste Disposal Processing units Bellahalli, Bagaluru and Kattigenahalli Byatarayanapura Constituency. |
| **Client** | Bruhat Bangalore Mahanagar Palike |
| **Consultant** | TEJUS CONSULTANTS |
| **Contractor** | Sri.A G. Narayana Swamy. |
| **Sample ID** | Cement (OPC 43 Grade) |
| **Date of Sample Tested** | 08-06-2022 |
| **Sample Supplied By** | Agency |

| Sl.No. | Descriptions | Test Method as per IS | Test Result | Requirements as per IS: 12269-1987 |
|---|---|---|---|---|
| 1 | a) Initial Setting Time | IS-4031 (Part-5) | 108 Minutes | Not Less than 30 Minutes |
| | b) Final Setting Time | IS-4031 (Part-5) | 412 Minutes | Not More than 600 Minutes |
| 2 | Soundness | IS-4031 (Part-3) By the Le-Chatelier method | 5mm | Not More than 10 mm |
| 3 | Standard Consistency | IS-4031 (Part-4) | 29.00% | |
| **Remarks :** | | | Satisfactory / Not Satisfactory | |

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## BITUMEN CONTENT AND GRADATION DETERMINATION OF DENSE BITUMINOUS MACADAM MIX

| | | |
|---|---|---|
| Name of Work | : | Developments works to be under taken in Ward No.05 of BBMP around Solid Waste Disposal Processing units Bellahalli, Bagaluru and Kattigenahalli Byatarayanapura Constituency. |
| Client | : | Bruhat Bengaluru Mahanagara Palike |
| Consultant | : | TEJUS CONSULTANTS Basaveshwar Nagar Bangalore |
| Contractor | : | Sri.A G Narayana Swamy. |
| Date of Testing | : | 13-06-2022 |
| Type of Mix | : | DBM |
| Sample I/D | : | DBM-3 |

### DETERMINATION OF BITUMEN CONTENT

| Description | Trail 1 | Trail 2 |
|---|---|---|
| 1. Weight of Mixture before extraction, g | 894 | 922 |
| 2. Weight of Mixture after extraction, g | 853 | 883 |
| 3. Weight of Bitumen | 41 | 39 |
| 4. Weight of filter paper before extraction, g | 2.00 | 2.00 |
| 5. Weight of filter paper after extraction, g | 4.00 | 4.00 |
| 6. Weight of fines, g | 2.00 | 2.00 |
| 7. Weight of Bitumen & fines | 43.00 | 41.00 |
| 8. Bitumen content in % | 4.81 | 4.45 |
| 9. Average Bitumen content in % | 4.63 | |
| 10. Minimum Bitumen content in % | 4.50 | |

### GRADATION FOR DBM AFTER EXTRACTION

(As per MORT&H 500-10,Grading-2)

| | | | |
|---|---|---|---|
| **Sample Location:** | Noor nagar main road | **Date of Sampling:** | 13-06-2022 |
| | | **Date of testing:** | 13-06-2022 |
| **Type of material & Purpose:** | DBM | **Oven Dry Wt.(gms):** | 853 |

| IS Sieve size in mm | Weight retained | Cummulative weight retained (gm) | Cummulative % of retained | Cummulative % of passing | Specification limits |
|---|---|---|---|---|---|
| 37.50 | 0.0 | 0.0 | 0.00 | 100.00 | 100.00 |
| 26.50 | 43.0 | 43.0 | 5.04 | 94.96 | 90-100 |
| 19.00 | 128.0 | 171.0 | 20.05 | 79.95 | 71-95 |
| 13.20 | 118.0 | 289.0 | 33.88 | 66.12 | 56-80 |
| 4.750 | 160.0 | 449.0 | 52.64 | 47.36 | 38-54 |
| 2.360 | 105.0 | 554.0 | 64.95 | 35.05 | 28-42 |
| 0.300 | 183.0 | 737.0 | 86.40 | 13.60 | 7-21 |
| 0.075 | 65.0 | 802.0 | 94.02 | 5.98 | 2-8 |
| Pan | 62.0 | 864.0 | | | |
| Total | 853.0 | | | | |

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Asst. Executive Engineer
Project No.2
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BBMP, Bangalore-92

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| DETERMINATION OF RATE OF SPREAD TACK COAT | | | | |
|---|---|---|---|---|
| Name of Work : | Developments works to be under taken in Ward No.05 of BBMP around Solid Waste Disposal Processing units Bellahalli, Bagalur and Kattigenahalli Byatarayanapura Constituency. | | | |
| Client : | BRUHAT BANGALORE MAHANAGARA PALIKE | | | |
| Consultant : | M/s Tejus Consultants | | | |
| Contractor : | Sri.A G Narayana Swamy. | | | |
| Date of Testing : | 13.08.2022 | | | |
| Type of Mix : | Tack coat | | | |
| Sample I/D : | 3 | | | |
| Location : | Raba nagar main road | | | |
| Determination | Unit | Test No | | |
| | | 1 | 2 | 3 |
| Loacation | Chainage | @15 | @30 | @45 |
| Size of Plate (mxm) | Mt | 0.30 x .30 | 0.30 x .30 | 0.30 x .30 |
| Area of Plate (a) | Sq.mtr | 0.09 | 0.09 | 0.09 |
| Initial Wt of empty Plate (b) | Kg | 0.803 | 0.850 | 0.778 |
| Final weight of plate after application of tack Coat (c) | Kg | 0.826 | 0.873 | 0.801 |
| Weight of tack Coat (d=c-b) | Kg | 0.023 | 0.023 | 0.023 |
| Rate of spread of tack coat | Kg/sq.m | 0.253 | 0.252 | 0.253 |
| Average | Kg/sq.m | 0.253 | | |
| Specified Limit | Kg/sq.m | 0.250 Kg/sq.m | | |

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Asst. Executive Engineer
Project Div. (Central)
BBMP, Bangalore



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| | |
|---|---|
| Project | Developments works to be under taken in Ward No.05 of BBMP around Solid Waste Disposal Processing units Bellahalli, Bagaluru and Kattigenahalli Byatarayanapura Constituency. |
| Client | Bruhat Bengaluru Mahanagara Palike |
| Consultant | TEJUS CONSULTANTS Basaveshwar Nagar Bangalore |
| Contractor | Sri.A G Narayana Swamy. |

**FLAKINESS AND ELONGATION INDICES (IS 2386, PART 1)**

| | | | |
|---|---|---|---|
| Type of Material | DBM | Proposed Use | DBM |
| Sample Location | At plant | Date of Sampling | 13-06-2022 |
| | | Date of Testing | 13-06-2022 |

| Size of aggregate | | Flakiness Index | | Elongation Index | |
|---|---|---|---|---|---|
| Passing through IS sieve, mm | Retained on IS sieve, mm | Total wt. of aggregate retained on sieves (A) gms. | Wt. of aggregate passing from Flakiness gauge (B) gms | Wt. of aggregate retained on Flakiness gauge (C) gms | Wt. of aggregate retained on Elongation gauge after retained on Flakiness gauge(D)gms |
| 63.0 | 50.0 | 0 | 0 | 0 | 0 |
| 50.0 | 40.0 | 0 | 0 | 0 | 0 |
| 40.0 | 31.5 | 7399 | 673 | 7061 | 342 |
| 31.5 | 25.0 | 4255 | 234 | 3569 | 285 |
| 25.0 | 20.0 | 2461 | 248 | 1865 | 220 |
| 20.0 | 16.0 | 1544 | 330 | 966 | 261 |
| 16.0 | 12.5 | 588 | 111 | 460 | 196 |
| 12.5 | 10.0 | 498 | 72 | 275 | 95 |
| 10.0 | 6.3 | 139 | 84 | 84 | 65 |
| **Total** | | **16884** | **1752** | **14280** | **1464** |

Results

| | |
|---|---|
| Flakiness Index(%): | 10.38 |
| Elongation Index(%): | 10.25 |
| Combined FI+EL (%) | 20.63 |

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP

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|---|---|
| **Project** | Developments works to be under taken in Ward No.05 of BBMP around Solid Waste Disposal Processing units Bellahalli, Bagaluru and Kattigenahalli Byatarayanapura Constituency. |
| **Client** | Bruhat Bengaluru Mahanagara Palike |
| **Consultant** | TEJUS CONSULTANTS Basaveshwar Nagar Bangalore |
| **Contractor** | Sri.A G Narayana Swamy. |

## AGGREGATE IMPACT VALUE (IS: 2386 Part - 4)

| | | | |
|---|---|---|---|
| **Proposed Use** | DBM | **Date of Sampling** | 13-06-2022 |
| **Sample Location** | At plant | **Date of Testing** | 13-06-2022 |

| Sl. No. | Description | | Test No. 1 | Test No. 2 | Test No. 3 | Spec Limit (%) |
|---|---|---|---|---|---|---|
| 1 | Wt. of stone pieces (dry) passing IS Sieve 12.5mm but retained in IS sieve 10mm (gm) | (Wa) | 371.00 | 366.00 | 381.00 | |
| 2 | Wt. of the fraction retained in IS sieve 2.36mm after the impact test (gm) | (Wb) | 284.00 | 275.00 | 286.00 | |
| 3 | Wt. of the fraction passed in IS sieve 2.36mm after the impact test (gm) | (Wc) | 87.00 | 91.00 | 95.00 | |
| 4 | Aggregate Impact Value (%) | (Wc/Wa)*100 | 23.45 | 24.86 | 24.93 | |
| 5 | Average Aggregate impact value | (%) | 24.42 | | | Max - 30 % |

**Remarks :** Satisfactory / Not Satisfactory

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